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IN VITRO GROWTH OF CD4+ PERIPHERAL BLOOD T CELLS
IN SERUM-FREE MEDIUM

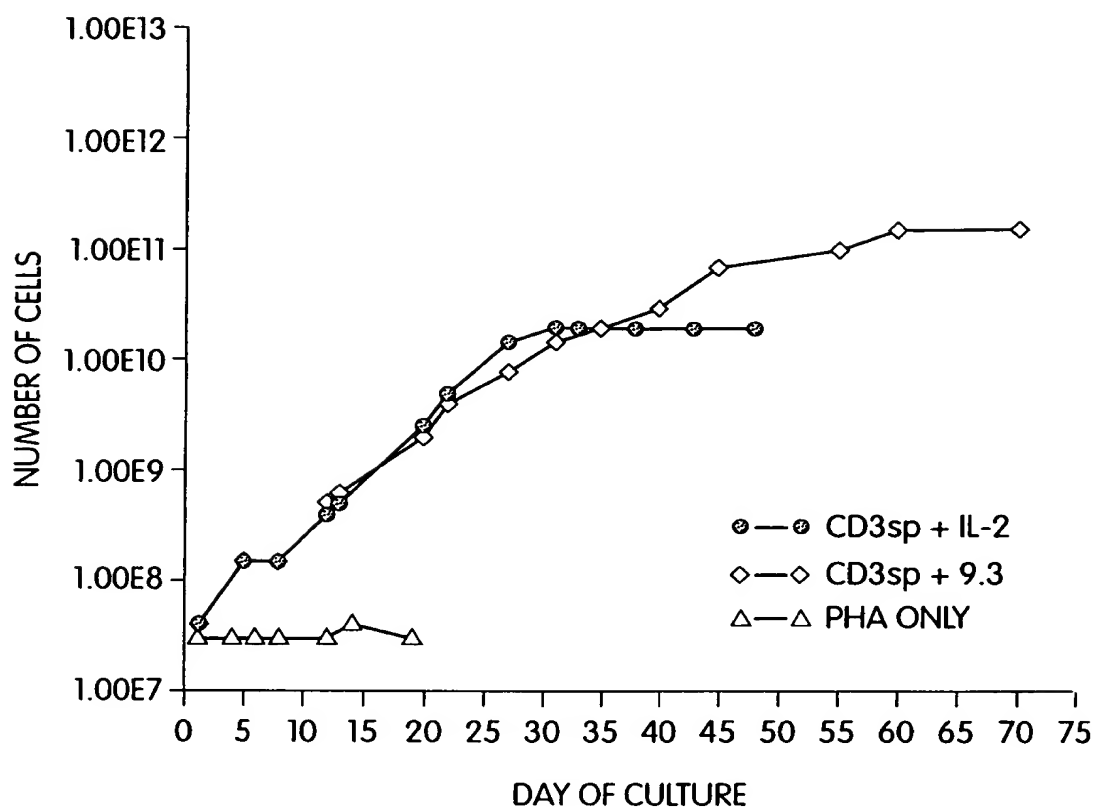


FIG. 1



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GROWTH OF CD4+ PERIPHERAL BLOOD T CELLS
IN RPMI PLUS 10% FETAL CALF SERUM

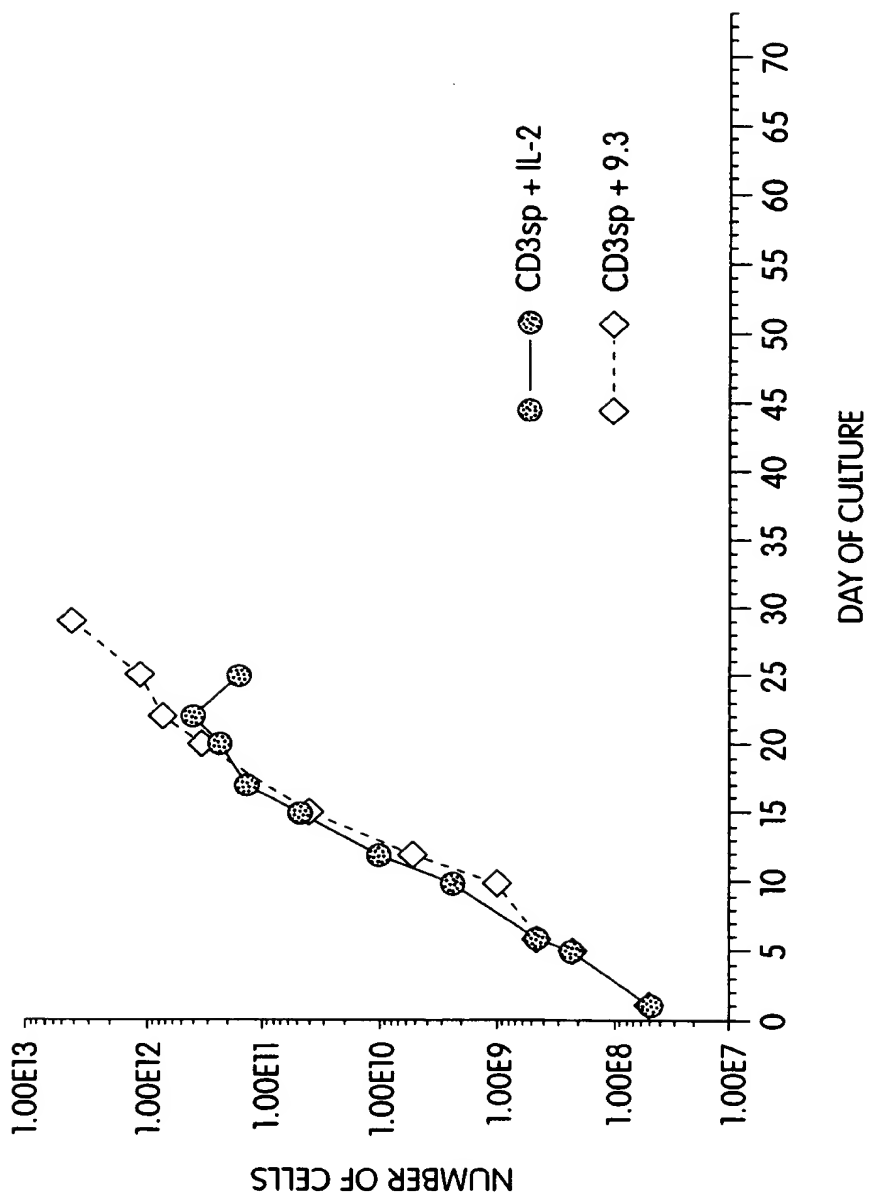


FIG. 2



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GROWTH OF CD4+ PERIPHERAL BLOOD T CELLS

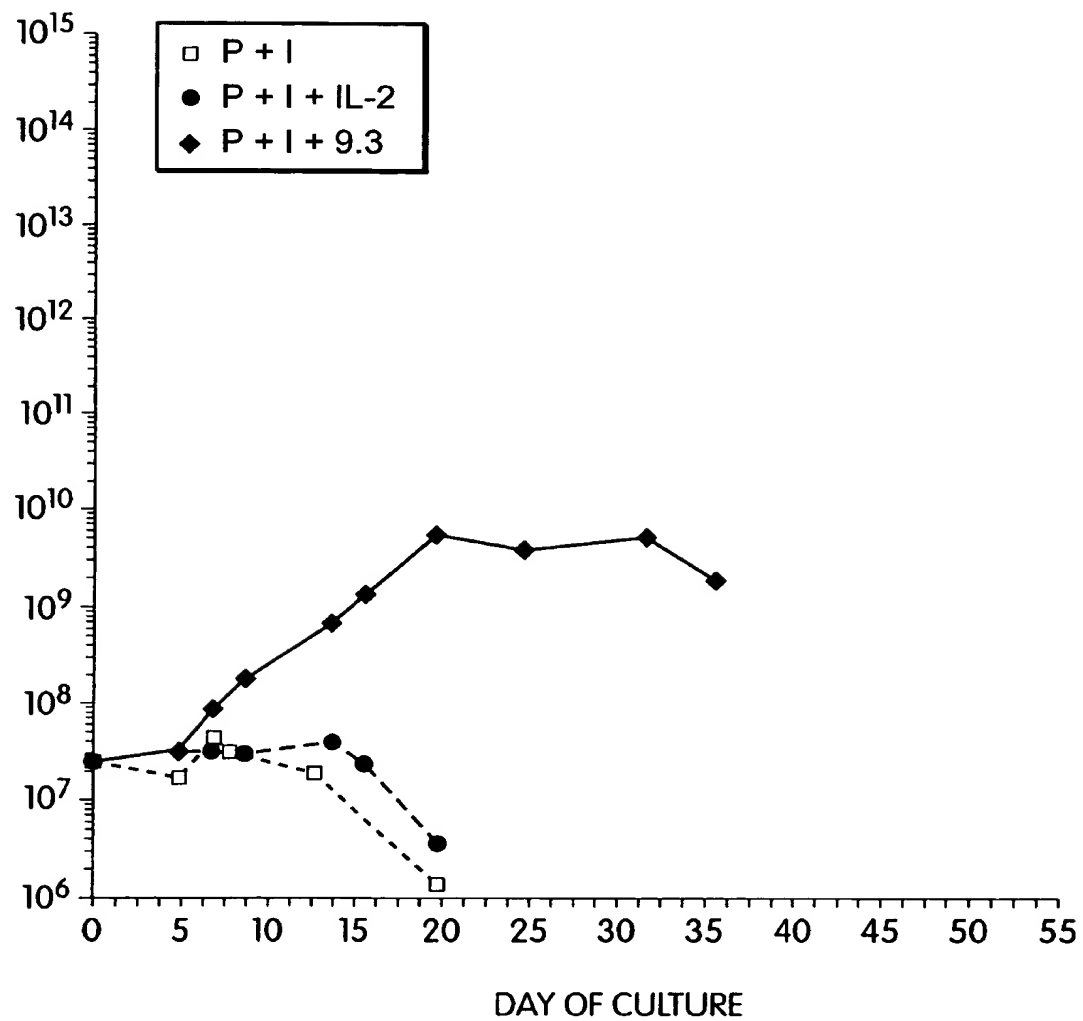
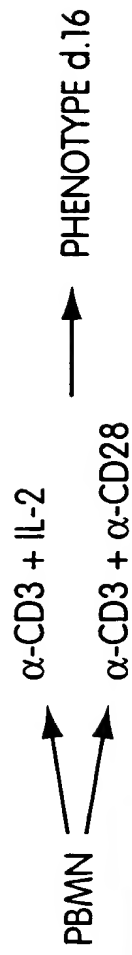


FIG. 3

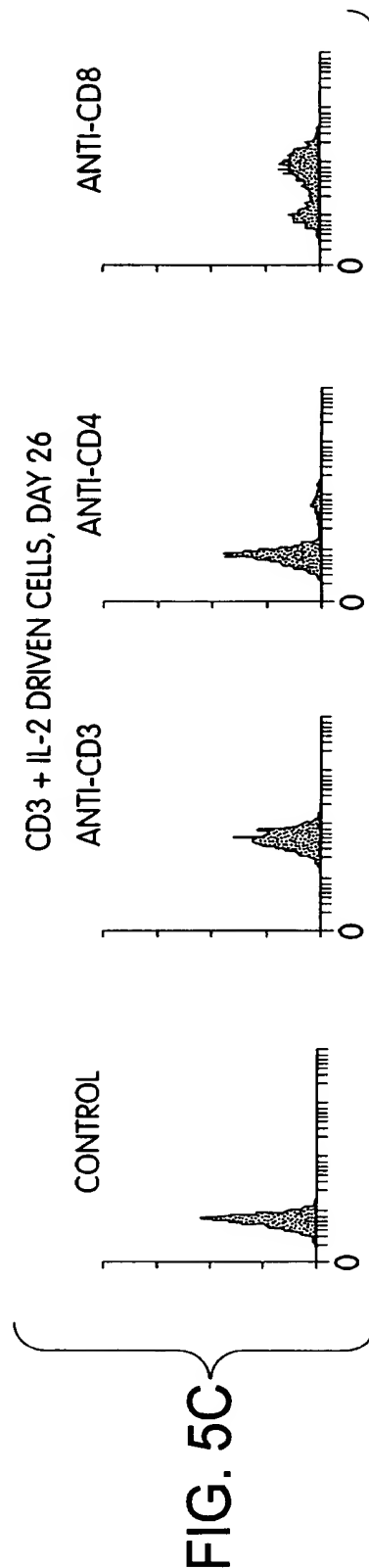
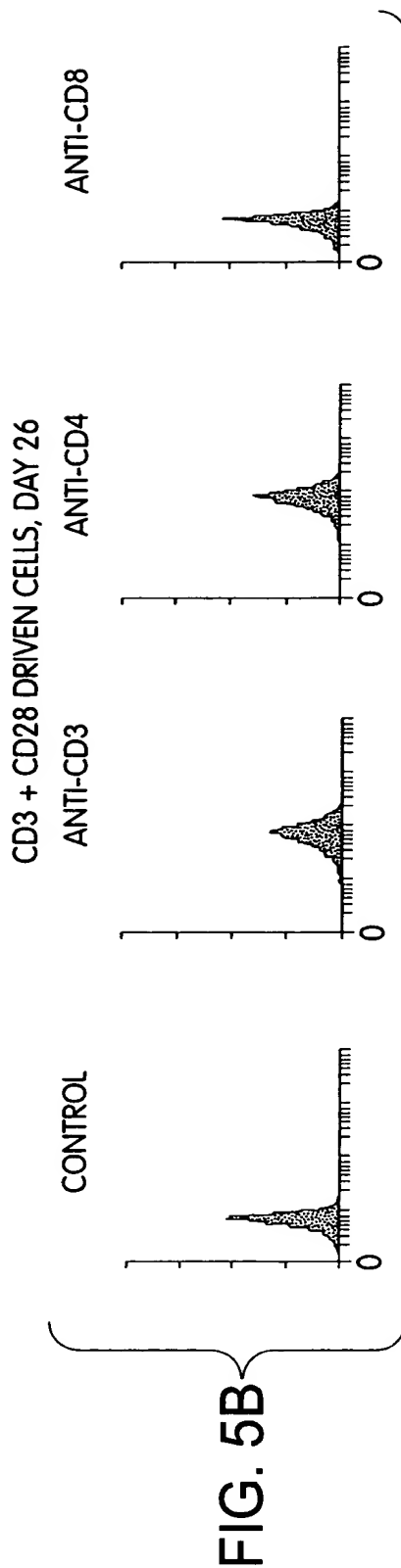
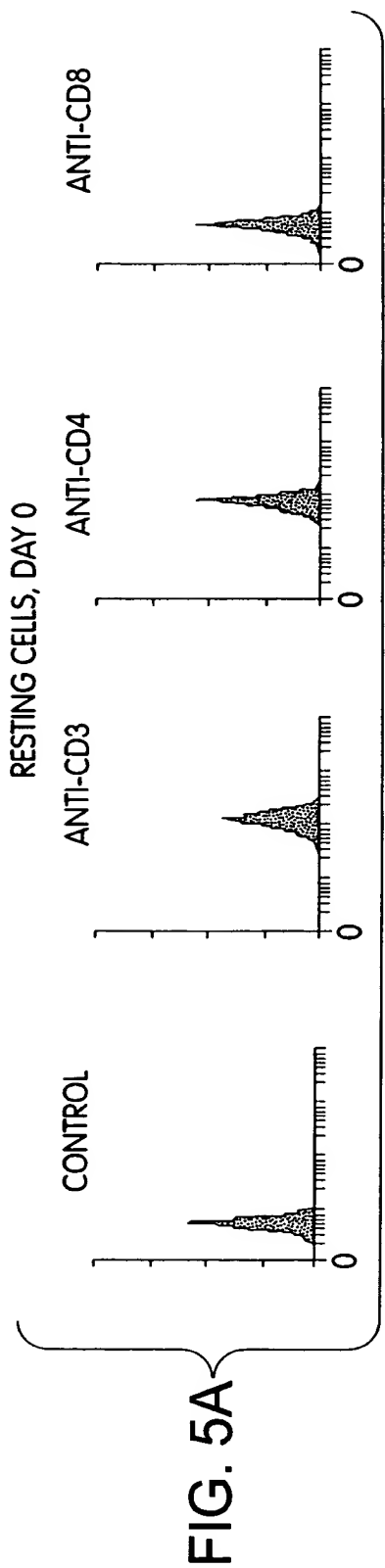


SELECTIVE OUTGROWTH OF CD4+ T CELLS DURING
CD28 STIMULATED T CELL EXPANSION



CULTURE	DAY 0		DAY 16		4/18
	CD4	CD8	CD4	CD8	
CD3 + IL-2	30.9	13.9	8.0	84.5	
CD3 + CD28			44.6	52.5	

FIG. 4



mAb EX5.3D10
 CHO-DG44 CELLS

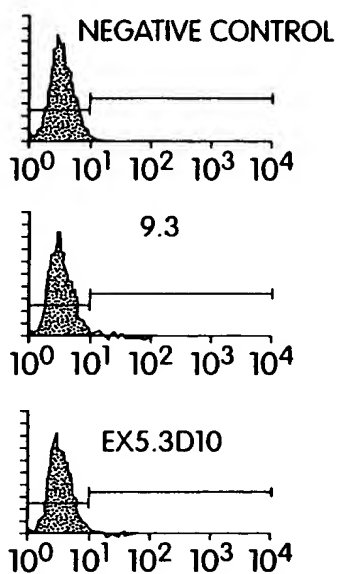


FIG. 6A

mAb EX5.3D10
 CHO-hh CELLS

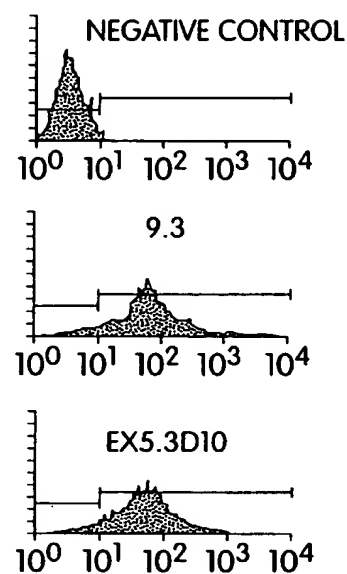


FIG. 6B

mAb EX5.3D10
 UNACTIVATED PBLs

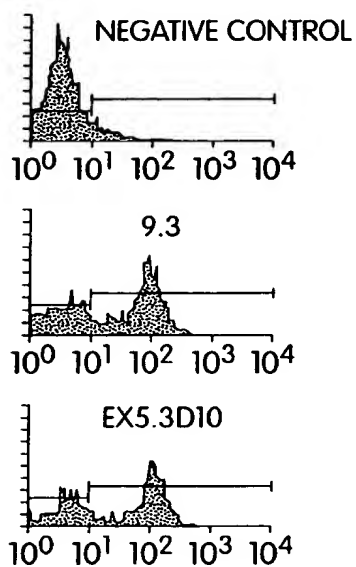


FIG. 6C

mAb EX5.3D10
 JURKAT #7 CELLS

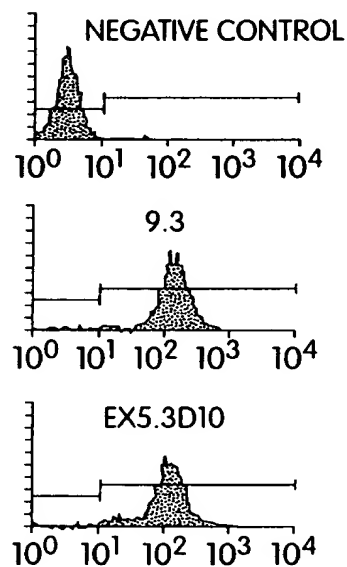


FIG. 6D



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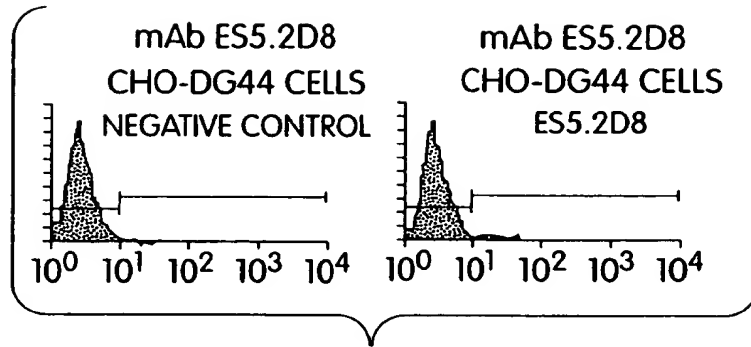


FIG. 7A

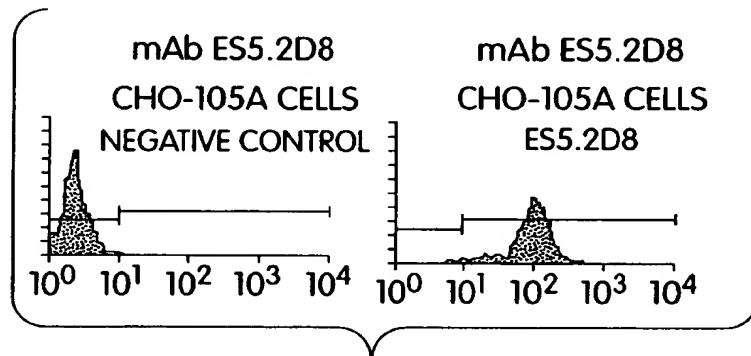


FIG. 7B

hPBLs:

UNACTIVATED

NEGATIVE CONTROL

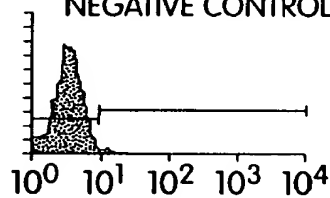


FIG. 7C

hPBLs:

PMA ACTIVATED

ES5.2D8.BIO.E3

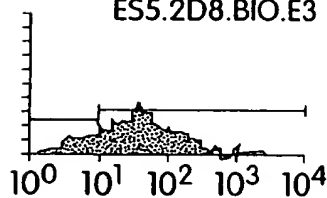
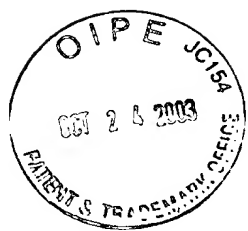


FIG. 7D



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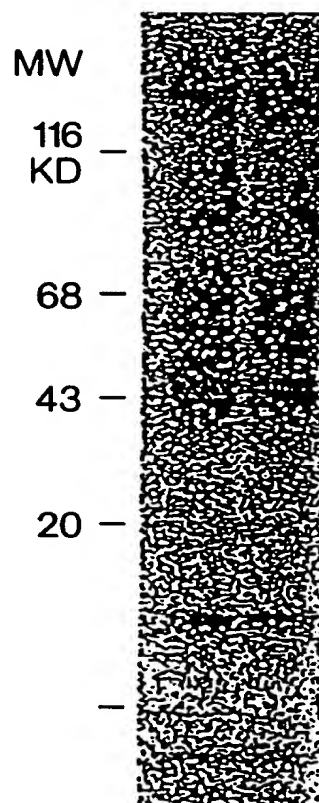


FIG. 8



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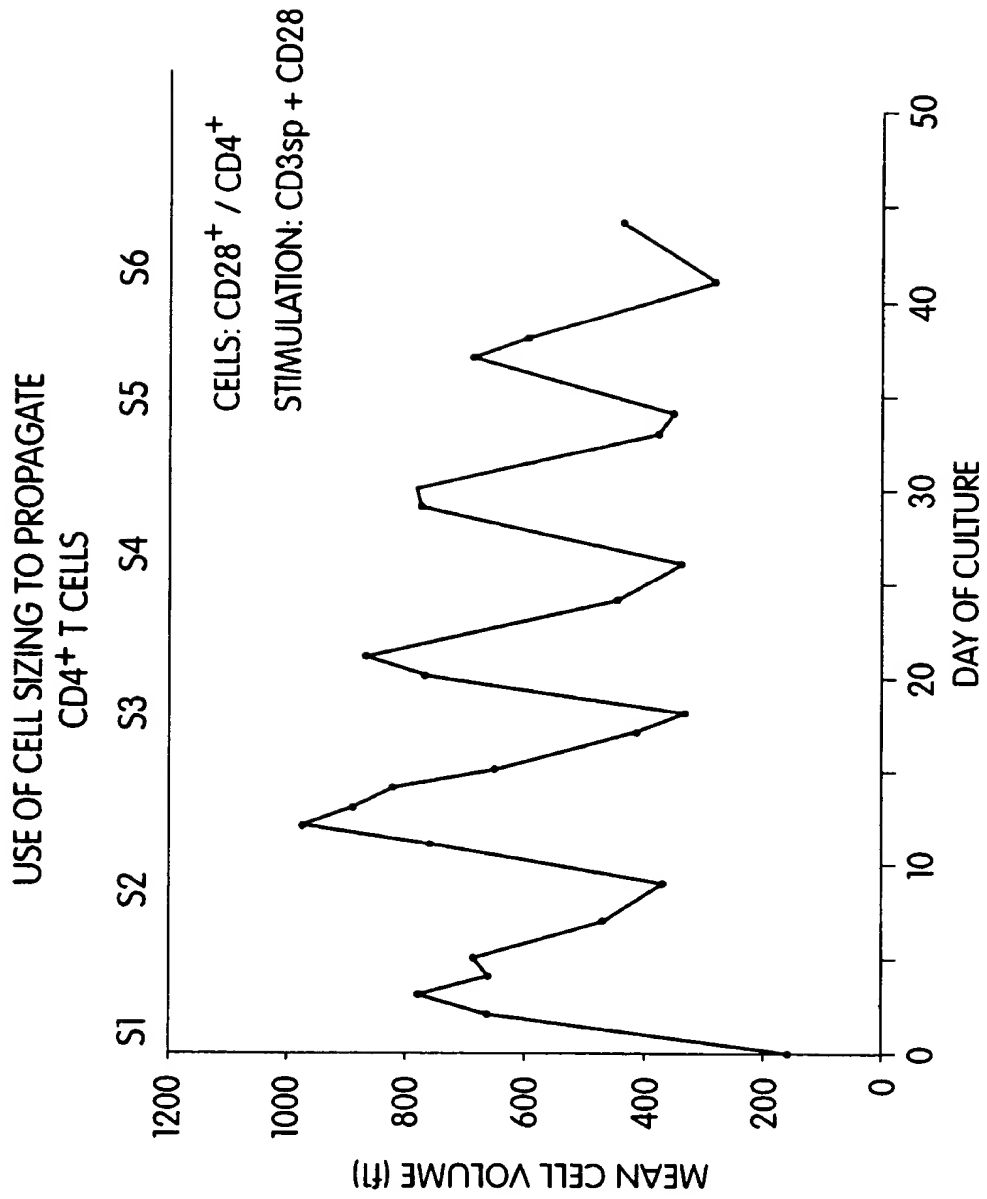


FIG. 9



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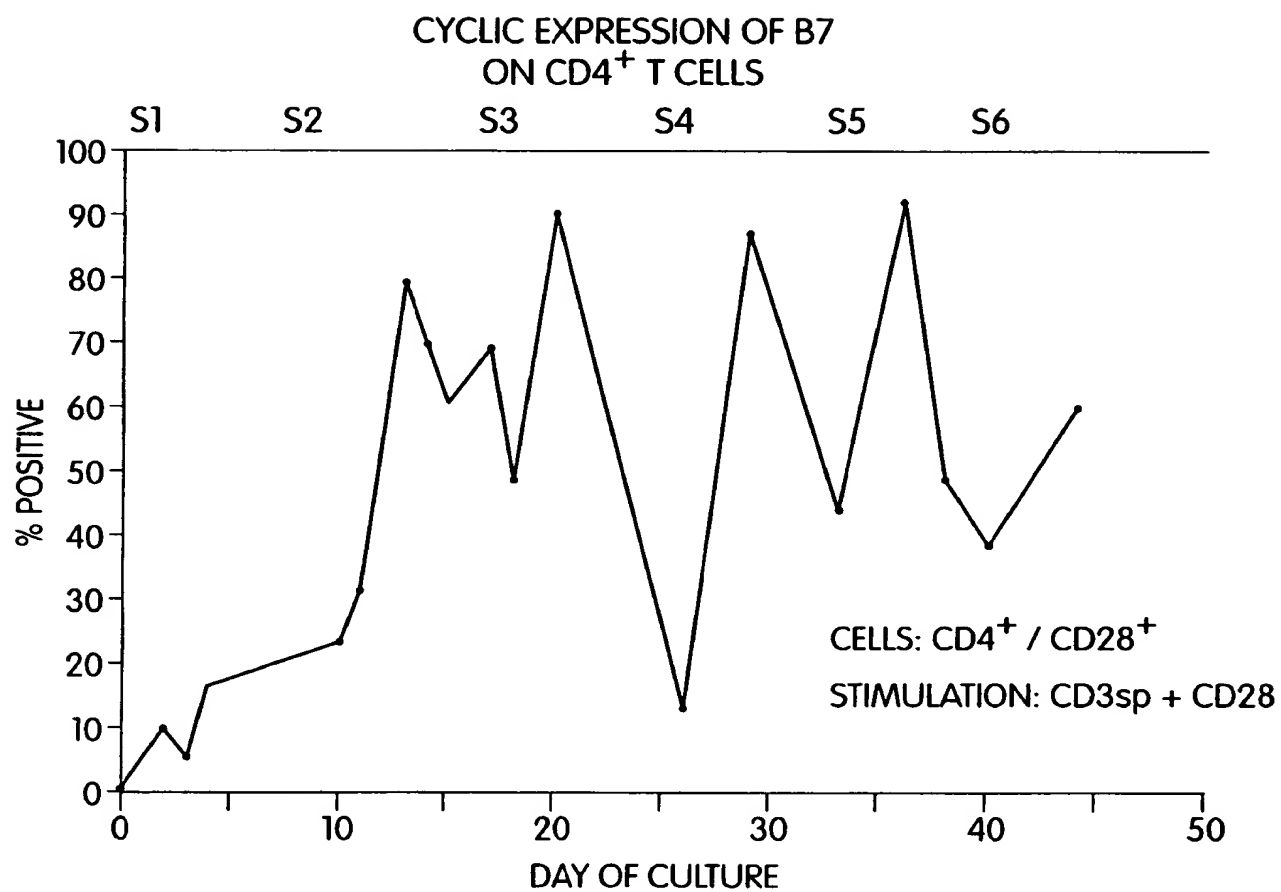


FIG. 10



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CYTOKINE ACCUMULATION IN
CULTURE SUPERNATANTS

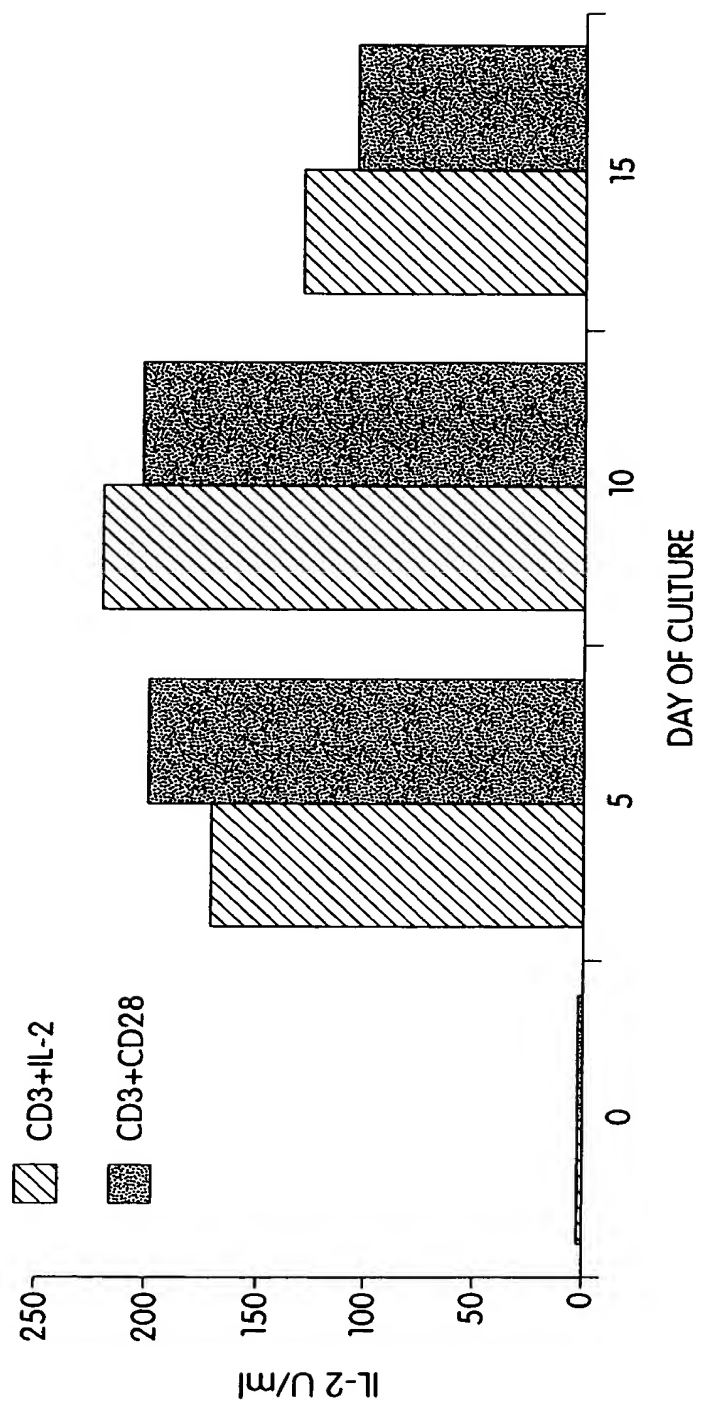


FIG. 11



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CYTOKINE ACCUMULATION IN
CULTURE SUPERNATANTS

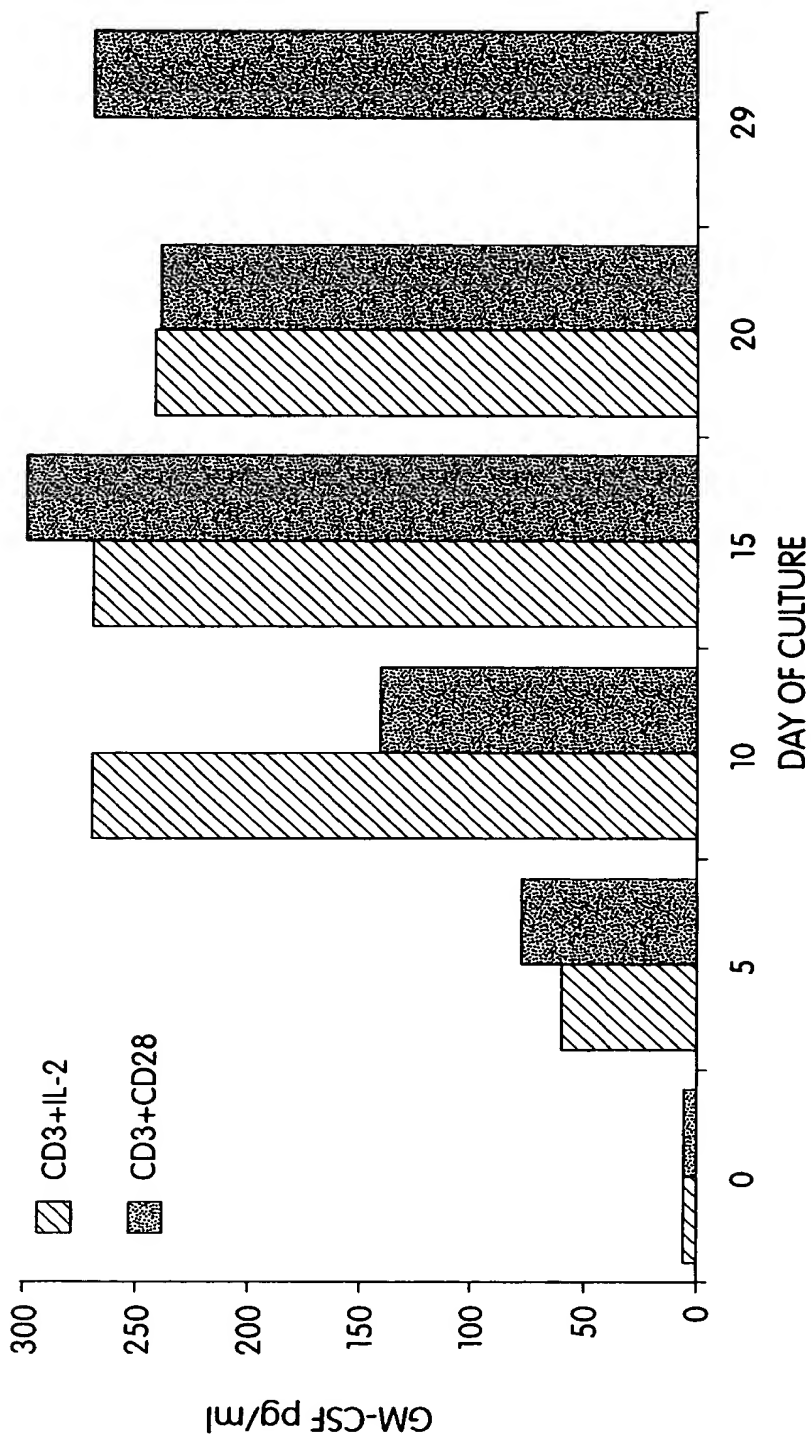


FIG. 12



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CYTOKINE ACCUMULATION IN
CULTURE SUPERNATANTS

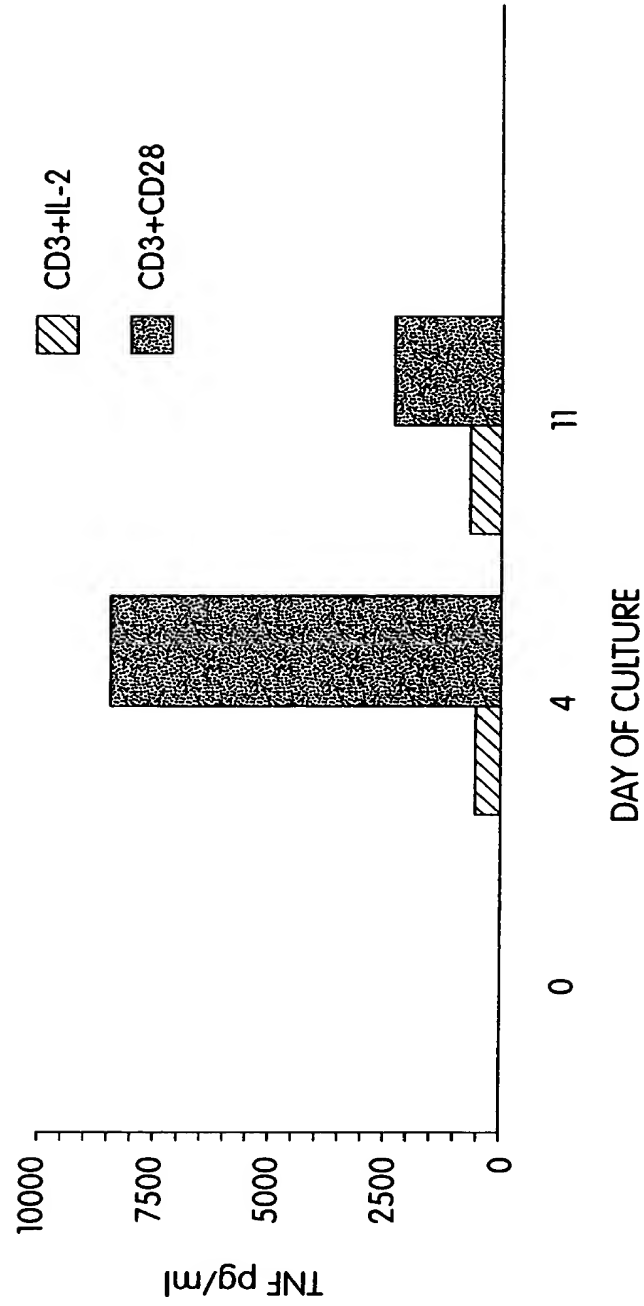
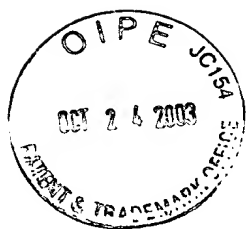


FIG. 13



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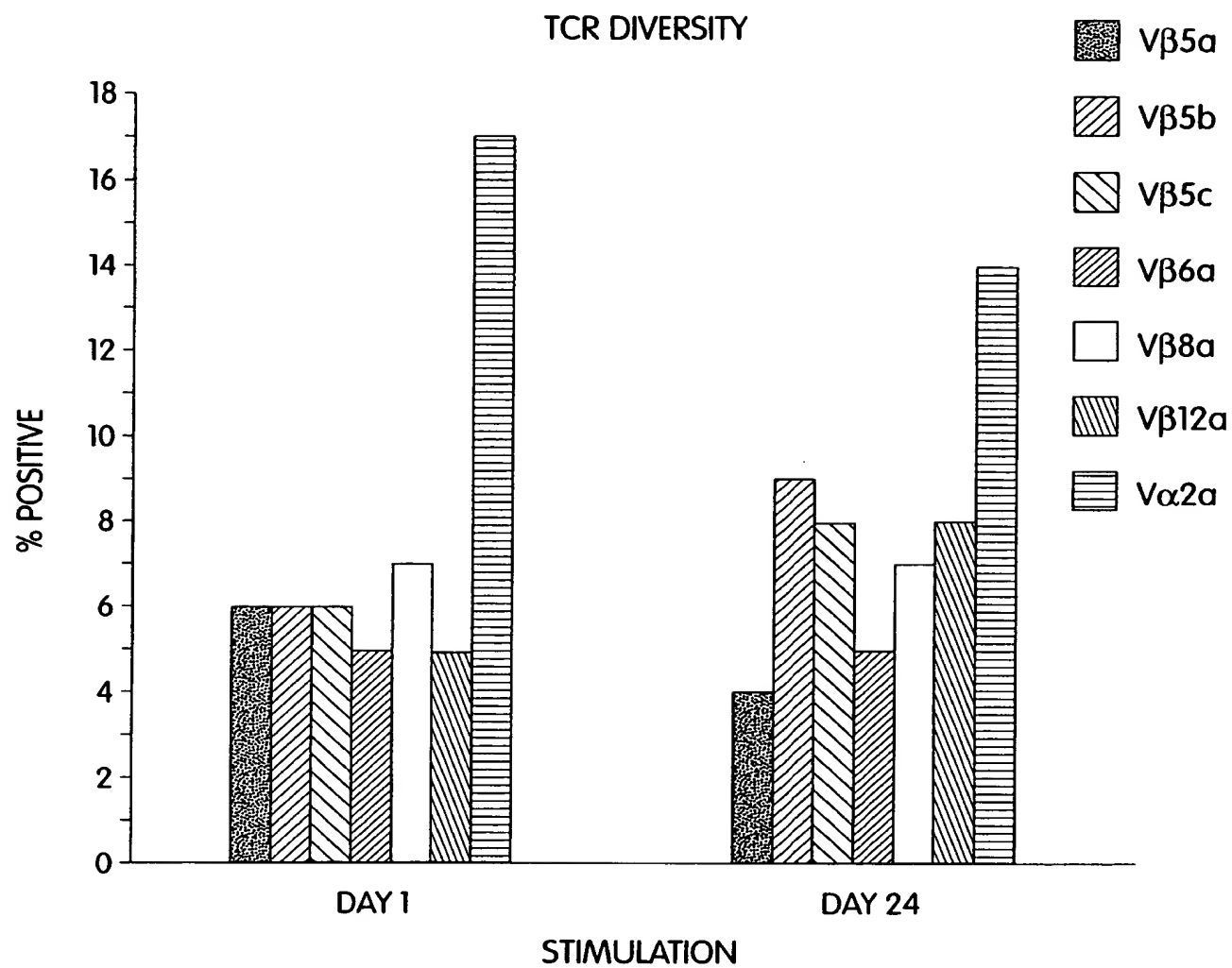


FIG. 14



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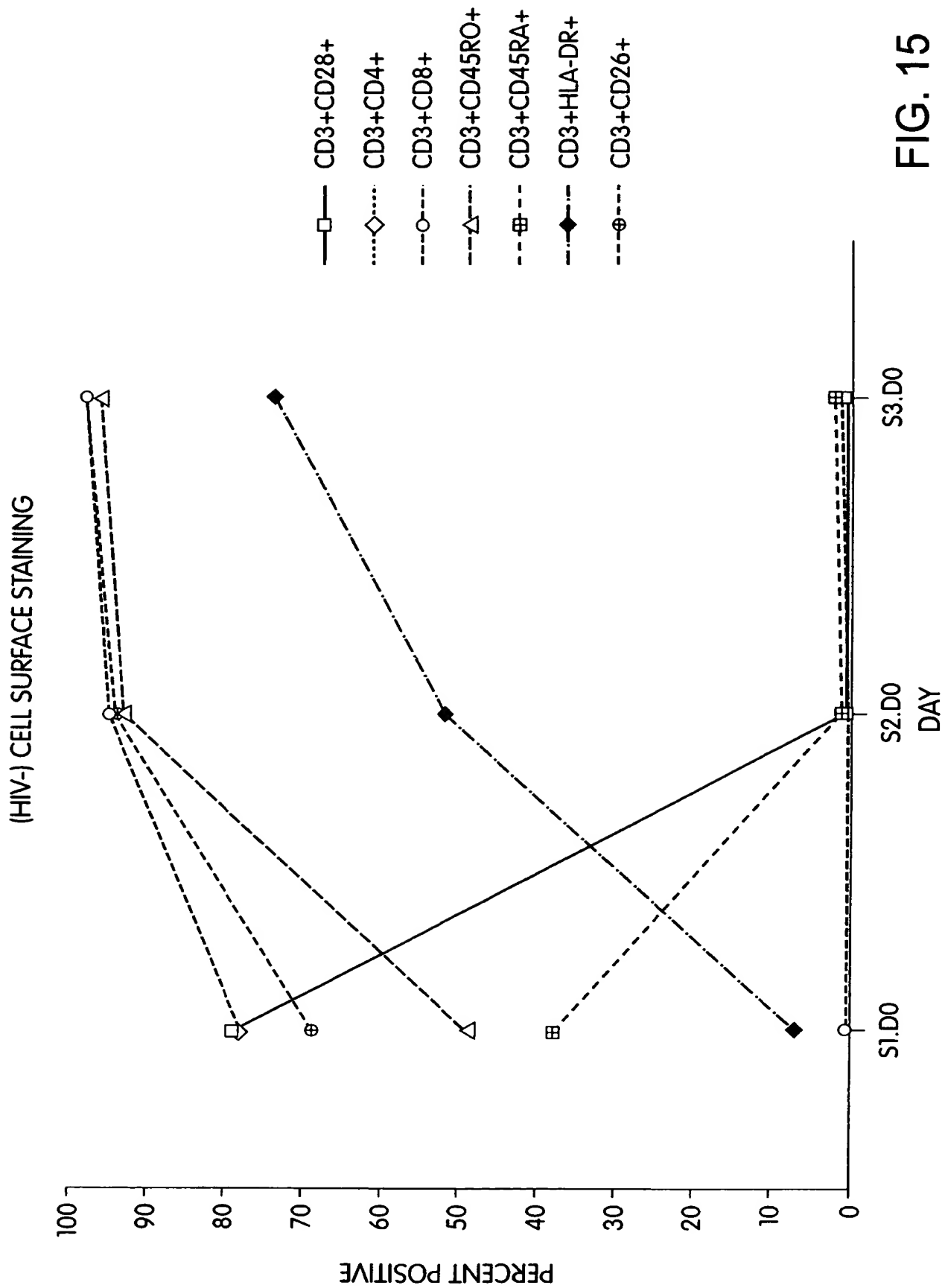
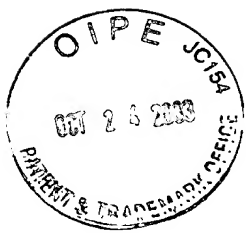


FIG. 15



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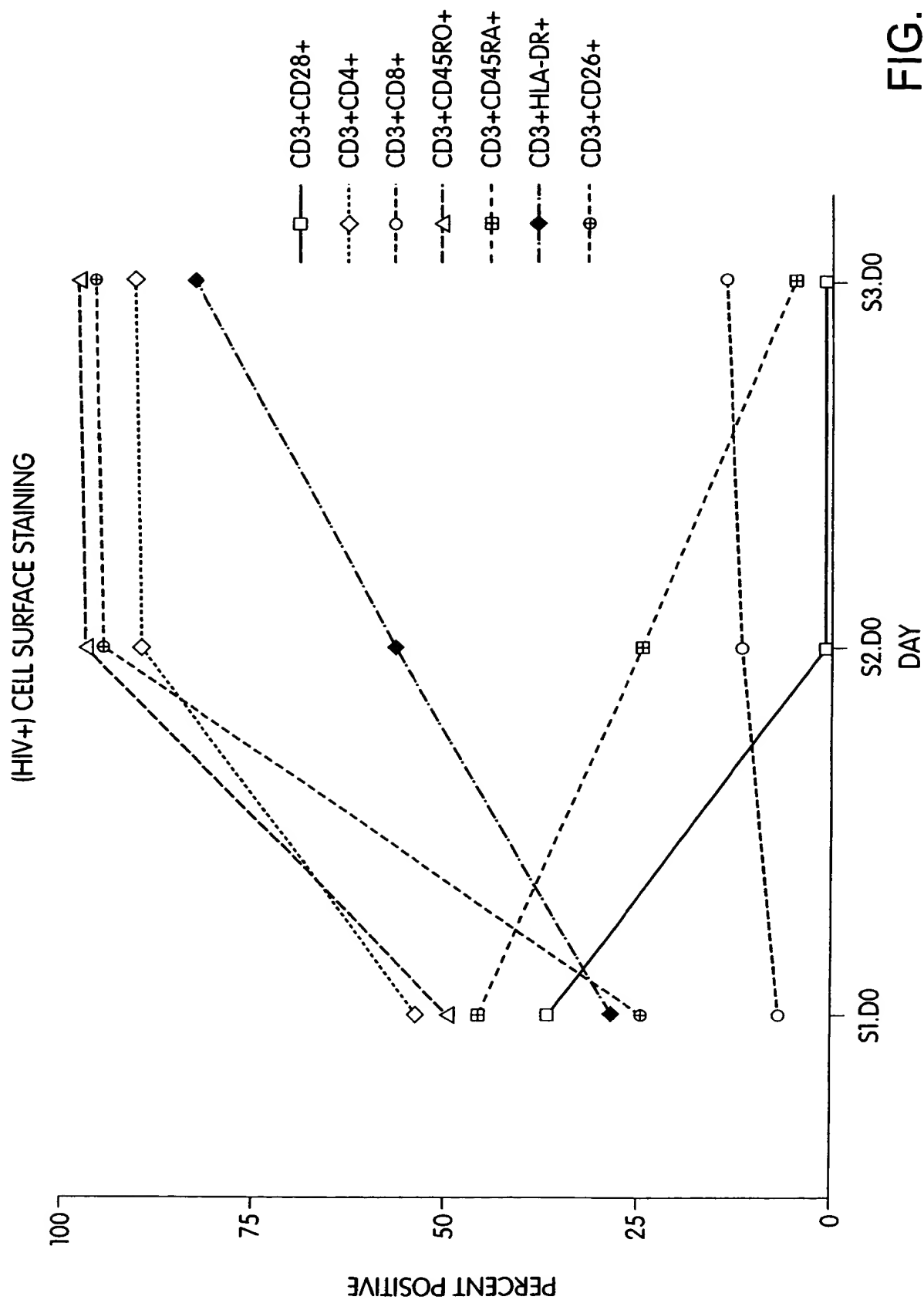
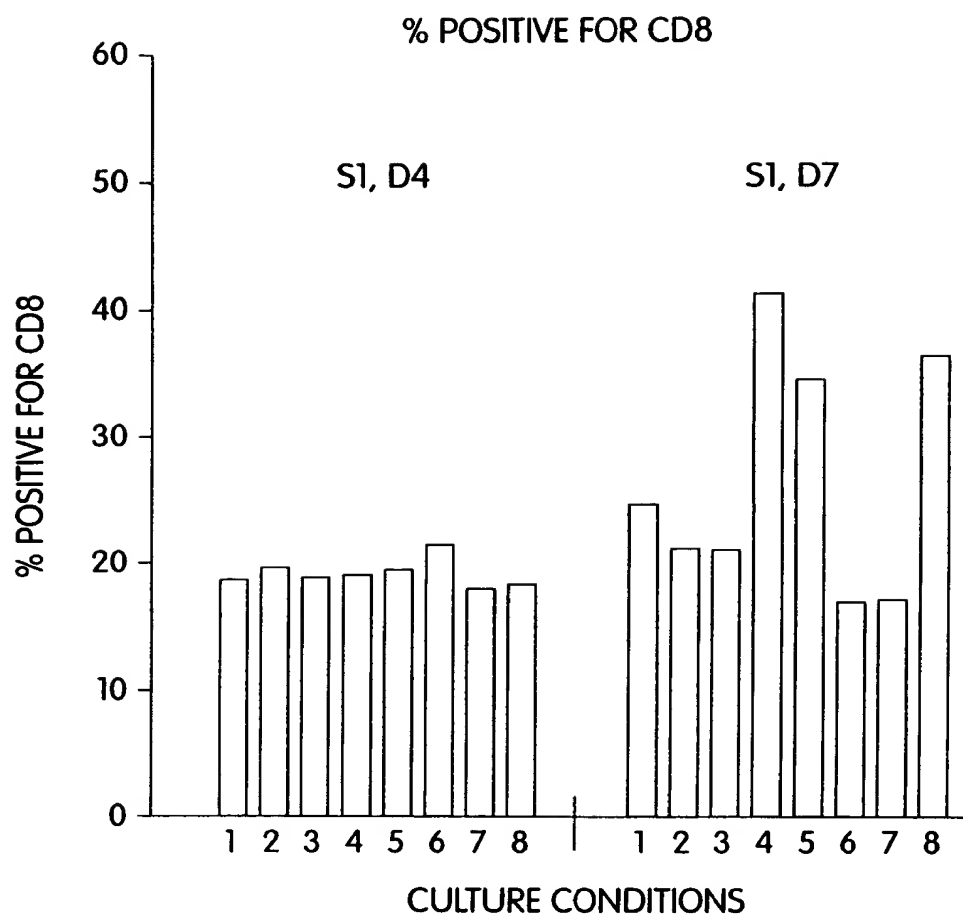


FIG. 16



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- #1: G19-4sp + IL-2
- #2: G19-4sp + 9.3
- #3: G19-4sp + EX5.3D10
- #4: G19-4sp + ES5.2D8
- #5: G19-4sp + 7G11
- #6: G19-4sp + 9.3 + ES5.2D8
- #7: G19-4sp + 9.3 + 7G11
- #8: G19-4sp + ES5.2D8 + 7G11

FIG. 17



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CELLS STAINED
WITH: IgG

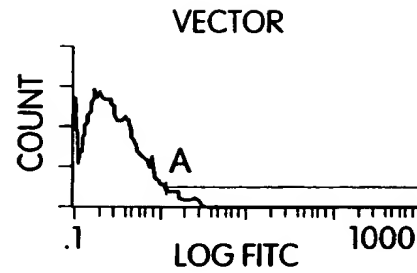


FIG. 18A

CELLS STAINED
WITH: IgG

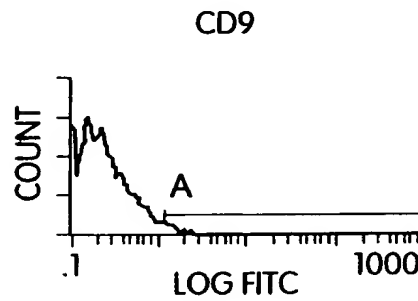


FIG. 18B

CELLS STAINED
WITH: mAb ES5.2D8

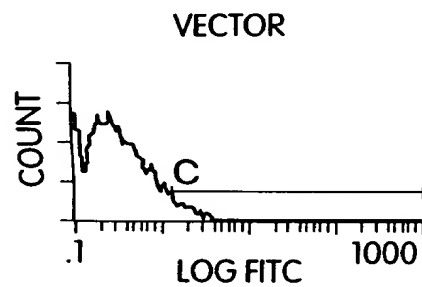


FIG. 18C

CELLS STAINED
WITH: mAb ES5.2D8

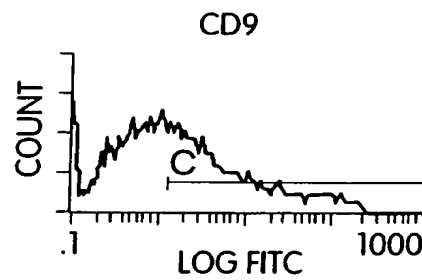


FIG. 18D